

MARSHALL STAR

Serving the Marshall Space Flight Center Community

April 22, 2004



NASA/Renee Bouchard

O'Keefe, Jennings discuss Safety Survey

Results of the NASA Mission Safety Climate and Culture Survey are discussed during a televised appearance on "NASA Update" April 13 by Administrator Sean O'Keefe, left, and James L. Jennings, Associate Director for Institutions and Asset Management. The survey provides results of an assessment of NASA's overall safety climate and culture based on reviews of existing information, employee surveys, interviews and focus groups. To see the survey's results, go to <http://www.nasa.gov/about/highlights/index.html>.

Gravity Probe B launches historic science mission

by Sherrie Super

The NASA space vehicle designed to test two important predictions of Albert Einstein's Theory of General Relativity launched Tuesday from Vandenberg Air Force Base, Calif., aboard a Boeing Delta II expendable launch vehicle.

The spacecraft is being inserted into an almost perfect circular polar orbit around the Earth at an altitude of 400 statute miles.

"The solar arrays are deployed, and we have received initial data that indicates all systems are operating smoothly. We are very pleased," said Gravity Probe B (GP-B) Program Manager and Marshall Center Deputy Director Rex Geveden. "The Gravity Probe B space vehicle houses one of the most challenging science instruments ever devised and seeks to answer some of the most important questions about the structure of our universe."

See *Gravity Probe B* on page 2

'Short visit' to U.S. lasts 40 years for scientist leading NASA mission to test Einstein theory

by Sherrie Super

In 1960, Dr. C. W. Francis Everitt ventured from his home country of Great Britain for "two or three years" to conduct physics research in the United States.

More than 40 years later, he's still here. And the Tuesday launch of Gravity Probe B — a NASA-sponsored experiment to test Albert Einstein's General Theory of Relativity — is the culmination of decades of a career Everitt devoted to help make it happen.

A scientist and professor at Stanford University in Stanford, Calif., Everitt is the principal investigator for Gravity Probe B, also known as GP-B, which lifted off from Vandenberg Air Force Base, Calif. The experiment will use four ultra-

precise gyroscopes to test Einstein's 1916 theory that space and time are distorted by the presence of massive objects.

"It's very exciting to test Einstein," said Everitt, whose own interest in science and engineering was fueled by the interests of his father who was an engineer. "When I was about 13, I remember my father discussing at the dinner table Einstein's book, 'The Meaning of Relativity.'"

The youngest of five children, Everitt followed his family's tradition of academic pursuits. His older siblings had earned advanced degrees in subjects ranging from math, history, and accounting to theology. In 1959, Everitt earned his doctorate in physics from the University

See *Scientist* on page 6

Meyer named deputy of In-Space Propulsion at Marshall Center

by Sheri Bechtel

Rae Ann Meyer has been named deputy manager of the In-Space Propulsion Technology Projects Office at the Marshall Center.

The office, part of the Space Transportation Directorate at Marshall, is responsible for researching and developing alternative propulsion systems that one day could carry scientific missions to any point in the Solar System — faster and with more capability than ever before.

"The work being done by our team in the In-Space Technology Projects Office is inspiring because it's the first step toward exploring our Solar System, including Mars and beyond," Meyer said, who has

See *Meyer* on page 2

Gravity Probe B

Continued from page 1

The GP-B mission will use four ultra-precise gyroscopes to test Einstein's theory that space and time are distorted by the presence of massive objects. To accomplish this, the mission will measure two factors, how space and time are very slightly warped by the presence of the Earth, and how the Earth's rotation very slightly drags space-time around with it.

"This is a great moment and a great responsibility, the outcome of a unique collaboration of physicists and engineers to develop this near-perfect instrument to test Einstein's theory of gravity," said the experiment's principal investigator Dr. Francis Everitt of Stanford University in Stanford, Calif. "We are very grateful for all the support we have received at NASA and elsewhere for this exacting effort, truly a new venture in fundamental physics."

In-orbit checkout and calibration is scheduled to last 60 days, followed by a 12-month science-data acquisition period and a two-month post-science period for calibrations.

During the mission, data from GP-B will be received a minimum of twice daily. Either Earth-based ground stations or NASA's data relay satellites can receive the information. Controllers will be able to communicate with the orbiting space vehicle from the Mission Operations Center at Stanford University.

Data will include space vehicle and instrument performance, as well as the very precise measurements of the gyroscopes' spin-axis pointing. By 2005, the GP-B mission will be complete. A

Meyer

Continued from page 1

served as technical assistant for the office since 2003. "We have the potential propulsion technology that could significantly enhance our scientific return on investment and offer new direction in space exploration."

In her new position, Meyer shares responsibility with Manager Les Johnson for overseeing all technical development efforts within the office, including feasibility assessment, definition and design of advanced in-space propulsion technologies. These technologies include aerocapture, advanced chemical propulsion, electric propulsion, solar sails and new or "emerging" propulsion technologies, such as tethers or ultra-light solar sails.

"Rae Ann shares the vision for the next generation of in-space propulsion technologies," Johnson said. "Solar sailing between planets, ion propulsion systems sending robotic probes to the edges of the Solar System — Rae Ann will be a key

one-year period is planned for scientific analysis of the data.

The Marshall Center manages the GP-B program. NASA's prime contractor for the mission, Stanford University, conceived the experiment and is responsible for the design and integration of the science instrument, as well as for mission

operations and data analysis. Lockheed Martin, a major subcontractor, designed, integrated and tested the space vehicle and some of its major payload components. NASA's Kennedy Space Center and Boeing Expendable Launch Systems were responsible for the pre-launch preparations, countdown and launch of the Delta II.

For information about the GP-B mission on the Internet, go to <http://einstein.stanford.edu/> & <http://www.gravityprobeb.com>.

The writer, an employee of ASRI, supports the Media Relations Department.



Gravity Probe B

Marshall Imaging Services



Meyer

leader in making these technologies a reality."

Meyer joined the NASA team as an electrical engineer in 1989, initially responsible for the integration and testing of high-powered propulsion systems in

the Marshall Center's Propulsion Laboratory. She became team leader in 1997.

Since then, Meyer has held several management positions, including assistant manager of the Space Transfer Technology Project at Marshall from 2000 to 2002.

She planned and managed the funding for in-space technology development areas — simulated fission, electrical, solar thermal and advanced chemical propulsion — at NASA centers nationwide.

In 2002, Meyer was named technical

assistant to the Space Transportation's in-space investment area, which in 2003 became the In-Space Technology Projects Office. Meyer continued to serve as technical assistant to the projects office until her recent appointment as deputy manager.

Meyer earned a bachelor's degree in electrical engineering in 1989 from the University of Tennessee in Knoxville.

She has received numerous NASA honors and awards, including NASA Special Service Awards in 2002 and 2003 for helping to lay the groundwork for creation of the In-Space Technology Projects Office. She received a Space Act Board Award in 1995 from the NASA Inventions and Contributions Board for the invention of high power electromechanical actuators to provide thrust vector control of engine nozzles. The actuators provided a potential replacement for hydraulic systems.

The writer, employed by ASRI, supports the Media Relations Department.

'Spaceship Earth: No Passengers ... All Crew'

Marshall celebrates Earth Day

by Jonathan Baggs

Environmental stewardship was the key message during the annual Earth Day celebration at the Marshall Center on April 15. This year's theme was "Spaceship Earth: No Passengers ... All Crew."

Hundreds of Marshall team members turned out to hear keynote speaker Janet Herrin, senior vice president of river operations for the Tennessee Valley Authority.

Herrin said Earth Day helps drive home the message that "We are all in this together," concerning environmental management of air, water or land resources.

"It's important that we all work together to protect the environment," Herrin said. "There are no political boundaries ... so we must all accept responsibility for what happens to it."

Marshall team members receiving Environmental Suggestion Awards included:

- Scott Worley, ED16
 - Al Jones, SD43 and Jason Quinn, TD51 (tie)
 - Scott Stevens, Morgan Research
 - John Troy, EG&G
 - Katherine Mims, ED21
 - Nathan Coffee, EG&G.
- Photography Contest winners were:
- John Troy, EG&G

• Tammy Page, Mainthea.
The Environmental Department Award is given to individuals who have contributed significantly toward Marshall Center environmental programs during the past year. Award recipients were:

- Jimmy Guarin, AD22
- Monica Partida, TD50
- Joyce Meier, AD42
- Jim Sieja, TD74.

Sharon Scroggins, AD10, was this year's chairperson for the Environmental Excellence Team that sponsored the Earth Day event.

The writer, an employee of ASRI, is the Marshall Star editor.



Photo by Emmett Given, NASA/Marshall Center

Janet Herrin, senior vice president of river operations for the Tennessee Valley Authority, tells Marshall team members that TVA is made up of a "three-legged stool" that includes electricity production, economic development and environmental protection.



Photo by David Higginbotham, Marshall Center

Every year during Earth Day ceremonies, Marshall team members plant a tree. Planting a Japanese maple near Bldg. 4316 this year are, from left, Sharon Scroggins of the Environmental Excellence Team; Allen Elliott, manager of the Environmental Engineering Department; Janet Herrin of TVA; Dr. Jan Davis, director of the Safety and Mission Assurance Directorate; Pete Rodriguez, deputy manager of the Structures, Mechanics and Thermal Department; and Jim Carter, Center Operations director.



Photo by Emmett Given, Marshall Center

Dr. Jan Davis discusses NASA's environmental work during a live radio broadcast from Marshall on XHIPM Radio Ecologica in Merida, Yucatan, Mexico. Marshall's Pete Rodriguez serves as Davis' interpreter.



Photo by Emmett Given, NASA/Marshall Center

Christopher Chaney of TVA gives Marshall team member Sally Richardson information about environmental programs.

NASA astronaut Alan Poindexter presents Silver

Eleven Marshall team members received Silver Snoopy awards April 13 from NASA astronaut Alan Poindexter.

Silver Snoopy award pins have been flown aboard the Space Shuttle and are presented to a select few individuals recognized for outstanding effort in contributing to the success of human space flight missions.

Recipients also receive a certificate and commendation letter citing their outstand-

ing performance and the Astronaut Corps' appreciation.

Poindexter joined NASA in 1998, and is assigned as pilot for STS-120. He has more than 2,500 hours in more than 30 types of aircraft. He also has logged more than 450 landings on aircraft carriers and was selected as the 1996 Test Pilot of the Year for the Aircraft Division of the U.S. Naval Air Warfare Center at Patuxent River, Md.



Astronaut Alan Poindexter, center, presents Silver Snoopy awards to Randy Handley, left, and Wanda Hudson, both of ATK Thiokol.



Sally Harris, Huntsville site director for Rocketdyne Propulsion & Power, pulls a "role reversal" by presenting astronaut Alan Poindexter with a Space Shuttle Main Engine One Millionth Second Celebration pin.

Photos by Emmett Given, NASA/Marshall Center



Sarah Milligan, left, and Yolanda Dial, both of Arcata, receive Silver Snoopy awards.



Todd Douglas of Boeing Rocketdyne accepts a Silver Snoopy from Poindexter.

Snoopy awards to 11 Marshall team members



Mark Holbrook of CSC is awarded a Silver Snoopy.



Poindexter awards Silver Snoopys to Jacobs Sverdrup employees, from left, Rex Graves, Stephen Clanton and Thomas Williams.



Leigh Kelley of Boeing Rocketdyne receives a Silver Snoopy.



Hugh J. Christian of SD60 receives a Silver Snoopy from Poindexter.

Expedition 9 crew set for six-month stay on International Space Station

NASA Headquarters release

The International Space Station's Expedition 9 crew -- Cmdr. Gennady Padalka, NASA science officer and flight engineer Mike Fincke and European Space Agency astronaut Andre Kuipers of the Netherlands, launched April 18 from the Baikonur

Cosmodrome in Kazakstan.

Padalka and Fincke will spend six months onboard the orbiting science outpost. Visiting researcher Kuipers will conduct nine days of science experiments before returning to Earth with the Expedition 8 crew.

Expedition 9 will feature two spacewalks and the arrival of two Russian

Progress supply vehicles. They also will conduct experiments pertaining to life sciences, physics and chemistry, and their applications in materials and manufacturing processes.

The Expedition 8 crew, Cmdr. Mike Foale and flight engineer Alexander Kaleri, have been on the Space Station since October 2003.

Scientist

Continued from page 1
of London.

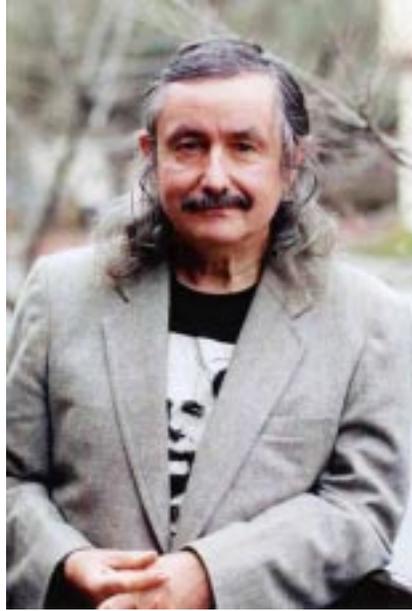
In 1960, he traveled to the United States to study low-temperature physics at the University of Pennsylvania in Philadelphia. He arrived Oct. 6 — a date he still remembers because it was near the end of the heated presidential race between John F. Kennedy and Richard M. Nixon.

In 1962, he joined Stanford University as a researcher and professor of physics. With the addition of Everitt, Stanford formed the physics-engineering team that would take the first steps in designing a remarkable experiment to measure two factors — how space and time are very slightly warped by the presence of the Earth, and how the Earth's rotation very slightly drags space-time around with it.

So began the long and often challenging process of Gravity Probe B design, analysis, and exploratory research, funded by NASA and managed by the Marshall Center.

Even if he had sought to plan his career to the last detail — which he didn't — Everitt said he couldn't have anticipated how things turned out. "My job has changed about five times."

Even though he didn't anticipate a career spanning four



Everitt

Courtesy photo

decades focused on Gravity Probe B, Everitt appreciates the help he's received from a wide variety of people who lent their support to the ambitious science project.

"We have had amazing support from unexpected directions," Everitt said. "People came in and helped us right at the moment we needed it. This kind of support only increases your responsibility to do the experiment right."

Already Gravity Probe B has achieved unexpected results. For instance, new technologies that will help shape future scientific experiments, 78 doctoral dissertations by students at Stanford and other universities participating in Gravity Probe B research, and perhaps a new way to look at Einstein's theories.

"Of the 13 doctoral dissertations at universities other than Stanford, four were from the University of Alabama in Huntsville," he said. "This is one additional way this project has benefited from the collaboration — technical as well as managerial — between Stanford and the Marshall Center."

The writer, an employee of ASRI, supports the Media Relations Department.

Job Announcements

MS04C0111, Lead AST, Technical Engineering Operations Management. GS-0801-14, Engineering Directorate, Engineering Systems Department, Configuration & Data Management Group. Closes April 26. Contact: Dana Blaine at 544-7514.

MS04B0119, AST, Quality Assurance. Delegated Examining Unit and Competitive Placement Plan. GS-0861-14, Safety and Mission Assurance Directorate, SR&QA Policy, Assessment & Integration Department. Closes April 30. Contact: Rita Evans-McCoy at 544-7507.

MS04C0122, Lead Budget Applications Support Specialist. GS-0501-13 (promotion potential to GS-14), Office of the Chief Financial Officer, Budget Integration Office. Closes April 26. Contact: Dana Blaine at 544-7514.

MS04C0125, Management Support Assistant. Competitive Placement Plan. GS-0303-07, Flight Projects Directorate, Payload Operations and Integration Department. Closes April 30. Contact: Carolyn Lundy at 544-4049.

Special thank you

The Marshall Center Education Programs Department expresses thanks and gratitude to all Center team members who volunteered to help during the 11th Annual Great Moonbuggy Race on April 2-3 at the U.S. Space & Rocket Center in Huntsville.

We appreciate the hard work and willingness to share your time and talent to support the event.

Thanks again for helping to make the 11th Annual Great Moonbuggy Race a success.

— **Durlean Bradford**, coordinator
— **J.R. Pruitt**, manager



Photos by Terry Leibold, NASA/Marshall Center

COLSA receives industrial safety award

Marshall Director David King, center, presents a Level 1 Industrial Safety Performance Award to COLSA Corp. safety officer Kasondra Turner, left, and Thomas Wickline, program manager, at a recent Center Director's Team Meeting.

Announcements

Photos from 'Take Our Children to Work Day' available May 4-6

Parents can pick up photos of their children from Thursday's "Take Our Children to Work Day" event during regular business hours in the Bldg. 4200 lobby May 4-6. After May 6, the photos will be available at the front counter in Bldg. 4353.

'I Am Set' mentors needed

Mentors are needed to work with high school students during a high-tech summer internship for the Individuals with Disabilities in Math, Science, Engineering & Technology (I Am Set) program scheduled for June 7-July 16. For more information, including location and times, call Dr. Barbara Cady, project director, at (256) 372-4041 or Madeline Hereford in the Marshall Center's Equal Opportunity Office at 544-7420.

Health Fitness Expo set April 28

A Health Fitness Expo will be from 10 a.m.-2 p.m. April 28 at Center Activities Bldg. 4316. Theme for this year is "Healthier Living in 2004." There will be a fitness walk at 11 a.m. and the annual 5K Run at 4 p.m. A 10-mile bike ride will begin at the Fitness Center parking lot at 5 p.m. Rain date for the walk and run will be April 29. For more information, see "Inside Marshall" or call Heather Day at 544-9355.

Shuttle Buddies to meet Monday

The Shuttle Buddies will meet at 9 a.m. Monday at Mullins Restaurant on Andrew Jackson Way in Huntsville. For more information, call Deemer Self at 881-7757.

Marshall Center's Cotton Row Run teams to practice Fridays

Practice sessions for Marshall Center teams participating in the May 31 Cotton Row Run in Huntsville will be at 11:15 a.m. each Friday at the Fitness Center. For details, call James R. Burnum at 544-4008 or 653-4064.

Earth Science Technology Conference will be June 22-24

NASA's Earth Science Technology Office will present the fourth annual Earth Science Technology Conference June 22-24 in Palo Alto, Calif. The conference showcases a variety of technology research related to the Agency's earth science efforts, as well as new developments in information systems, computing, instruments and component technologies. To register or view a schedule of events, go to <http://esto.nasa.gov/conferences/estc2004/>.

Marshall Association luncheon to feature Dr. James Voss

Auburn University professor and former NASA astronaut Dr. James Voss will speak at the Marshall Association luncheon at 11:30 a.m. May 7 in Center Activities Bldg. 4316. Luncheon cost is \$8, payable at the door, but reservations are required by May 5. For details, call Roslin Hicks at 544-7795. The Marshall Association membership drive also is underway. Dues are \$25 per year.

UAH Engineering Summer Camp set for June, July

The University of Alabama in Huntsville will host its third annual Engineering Summer Camp for incoming high school juniors and seniors June 14-18 and July 12-16. Lab experiments and group projects will include bridge building, rocket launches, robotics, circuits and sensors, and chemical reactions. Cost is \$350, which includes fees, materials and lunch. Scholarships are available. For applications or more information, go to www.eb.uah.edu/camp or call Veronica Molina at (256) 824-3590.

Online bill payment offered for government credit cards

Bank of America is now offering free online bill payment for Federal Credit Card holders using MyEasyPayment.com. Government employees can access and make payments to their government-issued charge

accounts from any computer with Internet access. For more information, call 1-800-472-1424.

Seats available for Space Launch, Transportation class

Seats are available for the "Space Launch and Transportation Systems 15" workshop June 28-30 at the Marshall Institute. The event will provide an integrated view of space launch and transportation systems design and operations. The course is designed for a variety of space professionals who must interact with one another to produce, operate and use cost-effective space launch and transportation systems. Participants should include managers of all types, subsystem engineers, designers, analysts, operators and users of launch systems. Registration deadline is May 10. For details, call Georgann Crump at 544-6525.

Export control management and updates courses open

A course on Export Management and an Export Control Update will be offered at the Marshall Institute. "Introduction to Export Licensing and Technology Management" will be May 4-6. "Export Current Events and Updates" will be May 7. Both courses will be from 8 a.m.-4:30 p.m. in Room 714 at the Institute. For more information, call Vanita Brown at 544-2476.

MARS Co-ed Volleyball tournament winners announced

Team "KAOS" won the recent MARS Co-ed Volleyball Division I Tournament. Team members are Dennis Gallagher, Bridget and Kurt Dietz, Mark Adrian, Bill Witherow, John Busbey, Linda Clark, David Hathaway and Katela White. The "Weekend Warriors" team won in the Division II Tournament. Team members are Dennis Parton, Mark Coffman, Katie Coffman, Bill Boglio, Nelson Gay, Katherine Harris and David O'Dell.

For more Announcements, see "Inside Marshall"

Classified Ads

Miscellaneous

- ★ Oak desk, \$100; mahogany secretary, \$850; walnut hall tree, \$1,250. 489-0797
- ★ Duncan Fyffe table, \$300; cedar chest, \$100. 653-4240
- ★ RCA television, 27" console, picture in picture, \$50. 256-586-7424
- ★ Murray riding lawn mower, 8HP/30" cut, w/2-bin grass catcher, \$150. 461-8071
- ★ Harvard air hockey table, \$65; FSI aerobic stepper w/computer, \$75; lateral thigh trainer, \$75. 830-0166
- ★ Queen-size mattress and box spring, \$100. 777-1845
- ★ Drafting table, large 60" length, 20-degree fixed pitch, solid oak from 1949's, \$50. 256-922-0948
- ★ Heavy-duty utility trailer, 5'x8', full size tires, full drive-up tailgate. 256-931-5581 after 6 p.m.
- ★ Gibson ES-335, see-thru Cherry w/great flame, \$1,800; Fender USA standard strat, \$550. 256-232-0246
- ★ Solid wood bedroom suite, high headboard, queen-size w/matching dresser & mattresses, \$2,000. 517-1733
- ★ Aluminum semi-V boat w/deep sides, 15', Johnson 18HP, carpeted, 2 seats, trolling motor, trailer, \$1,400. 256-351-6996
- ★ Wedding gown w/train & veil, six, \$100; long red evening gown, five, halter, \$50. 881-8674
- ★ Huskyliner Weathertech tan colored floor mats for Toyota Tundras and Sequoias, front/rear mats, \$65. 656-0461
- ★ Framed Alabama prints, "Desperation Block" and Bear Bryant's "Final Victory", \$1,200. 852-6936
- ★ Miss Martha Originals, All God's Children figurines, retired. 256-603-0466
- ★ Upright piano, needs tuning, you pick up and haul, \$400. 256-582-3422
- ★ Sears Craftsman, 36" turning lathe on stand w/fauplate. 859-1188
- ★ New Dillard's designer sheets, bed skirts, bed spreads, will bring to you, make offer. 533-6800
- ★ Two tickets to Indigo Girls concert, April 30, 8 p.m., Alabama Theater in Birmingham, \$99. 881-8130
- ★ Component video cable, 6', \$20; two meter optical digital audio cable, \$10; \$25 both. 880-1544
- ★ Two twin beds, chest of drawers, nightstand, student desk and chair, \$200. 837-5113
- ★ Inlaid oval coffee table, 50"x29"x17", \$125. 883-2237
- ★ Full-size mattress and box spring set, soft, \$50 set. 895-9103
- ★ Aluminum bass boat, 15', 18HP Johnson, trolling motor, \$1,400; Yamaha 200cc 3-wheeler, \$350. 256-351-6996
- ★ 1977 Avion travel trailer, 27', for hunting, camping, or lake lot, \$4,500. 931-427-2059
- ★ Jenny Lind baby bed, complete comforter set and

- mattress, \$125. 852-0627
- ★ Black wireless keyboard w/pointing device built-in, \$20; Microsoft natural keyboard Pro, \$5. 765-532-4218
- ★ Winchester M70, youth model 243 caliber, \$300; New England Arms 44-caliber single shot, \$230. 830-4846
- ★ Two Coach purses, black leather, brass trim, \$50 each. 256-757-0469
- ★ Two Chicago tickets, May 11, Von Braun Center, midsection, Arena, parking pass, face value. 931-433-8293
- ★ Home gym, \$100. 830-4673/Doug
- ★ Dishes, Sandstone pattern by Interiors, eight 5-piece place settings, \$50. 655-3065
- ★ Exercise machine, 1-month old, \$50; New doghouse, \$50. 837-1774
- ★ 2002 boat trailer, black, tandem axle, brakes, fenders, 5.5K lbs. capacity, up to 26', \$2,750. 256-614-1831
- ★ AQHA palomino gelding, 4-years old, Doc Bar breeding, \$1,500. 931-732-4742
- ★ Baby items: crib w/mattress, \$50; stroller, \$30; Pack-n-Play, \$30. 655-6293
- ★ Exercise equipment: weights, wt. bench, lat. machine, barbells, 2 racks, curl bar, dumbbells, \$300. 256-539-0042
- ★ ABdoer exercise chair, never used, \$15. 461-8071
- ★ Boss RC-20 Loop Station phrase sampling pedal for guitar, vocals, bass, keyboards. \$210. 306-0700 Decatur

Vehicles

- ★ 1995 Mustang GT, new stereo, headlights, shocks, shifter, tuneup, Flowmasters, H-pipe, 17" wheels, leather, \$6,200. 216-8868
- ★ 1997 Mustang, V6, 5-speed, 80K miles, rear spoiler, GT wheels, many options, \$4,950 firm. 256-753-2278
- ★ 1989 S-10 Blazer, 2WD, 4.3L, V6, needs automatic transmission. 256-498-3162
- ★ 2000 Chrysler T/C LX, leather heated memory seats, Michelin alloy wheels, 16K miles, \$11,250. 256-534-1995
- ★ 1994 S-10 Tahoe Blazer, 6-cyl., Vortec engine, auto, ps, air, abs, Michelin tires, \$2,000. 256-656-9466
- ★ 1996 Pontiac TransSport SE van, 7-passenger, loaded, 93K miles, \$5,000. 256-518-9162 before 8 p.m.
- ★ 2003 Expedition. 233-6197
- ★ 1997 Ford Ranger, 6-cyl., auto, ps/pb/ac, 3L, 150K miles, new tire, \$3,500. 256-479-3660
- ★ 2003 Yamaha Raptor 4-wheeler, extended warranty, \$5,000. 256-426-9565
- ★ Honda motorcycle, VFR 50F, V4, red, sport, 26K miles, \$3,000. 859-0729
- ★ 2002 Kawasaki Vulcan Classic 800cc, 128 miles,

- \$5,575; 1976 Harley-Davidson XL1000, custom paint, \$5,500. 694-5768
- ★ 1998 Toyota Camry, 4-cyl., sunroof, cd/cassette, pw/pl, keyless entry, spoiler, 149K miles, \$5,500. 479-1912
- ★ 1992 Saab 900, 5-speed, air, stereo, 119K miles, needs work, \$1,500. 652-6788
- ★ 1998 Ford Windstar van, 1-owner, all-power, 132K miles, 3.8L/V6, \$1,950. 256-355-8530
- ★ 1995 Taurus GL, power driver's seat, pw/pm, 3.0L/V6, 173K miles, rebuilt transmission, \$1,595. 256-233-5403
- ★ 2001 Ford F-150 Super Crew XLT, 55K miles, loaded, \$16,500. 256-509-4733
- ★ 2000 Travel trailer, RV, 22', stove, microwave, bath w/shower, ac/heat, sleeps 6, \$7,500. 881-8674
- ★ 1999 Saturn SL1, 4-door, 65K miles, pw/pd, cd, well-maintained, one-owner, \$5,000. 256-776-8713
- ★ Dirt bikes: 1989 Honda CR250; 1996 Honda XR100; make offer. 655-6293

Wanted

- ★ Ride to work, near Huntsville Hospital, 7 a.m.-3:30 p.m., \$7 per day. 533-6980
- ★ Carpool to work from Scottsboro, Section, or Dutton; leave time adjustable from 6:30-7 a.m. 228-6353
- ★ 1947-1950 Chevy truck parts. 256-247-3144
- ★ Licensed electrician. 651-1137
- ★ Garden tractor, 35-50HP, less than 300 hrs., reasonably priced. 256-446-5350
- ★ Washer and dryer in good/excellent condition. 289-3905
- ★ To buy tent for camping, preferably 2-room. 256-931-4678
- ★ Hammock stand. 655-7972
- ★ Extension ladder, 24 feet or higher. 772-1870

Free

- ★ Composted horse manure for your garden, will load. 420-6574
- ★ TEAC 4010S 7" reel-to-reel tape deck plus tapes, functioning but needs work. 881-7805
- ★ Lotus tubers for water garden, large lavender blossom. 650-5422
- ★ Lab mix, 1 yr. old, spayed, indoor dog, needs lots of attention/patience/training. 256-653-9331
- ★ PC XT clone, CGA monitor, software. 881-1895
- ★ Queen-size water bed, no headboard or liner, never patched, you pick up in Huntsville. 426-8862

Lost

- ★ Gold tie chain, near C-Wing, Bldg. 4487. 544-8903

MARSHALL STAR

Vol. 44/No. 30

Marshall Space Flight Center, Alabama 35812
(256) 544-0030
<http://www1.msfc.nasa.gov>

The Marshall Star is published every Thursday by the Internal Relations and Communications Department at the George C. Marshall Space Flight Center, National Aeronautics and Space Administration. Contributions should be submitted no later than Monday noon to the Marshall Internal Relations and Communications Department (CD40), Bldg. 4200, room 101. Submissions should be written legibly and include the originator's name. Send electronic mail submissions to: intercom@msfc.nasa.gov The Marshall Star does not publish commercial advertising of any kind.

Manager of Internal Relations
and Communications — Steven Durham
Editor — Jonathan Baggs

U.S. Government Printing Office 2004-633-065-60100

Permit No. G-27
NASA
Postage & Fees PAID
PRE-SORT STANDARD